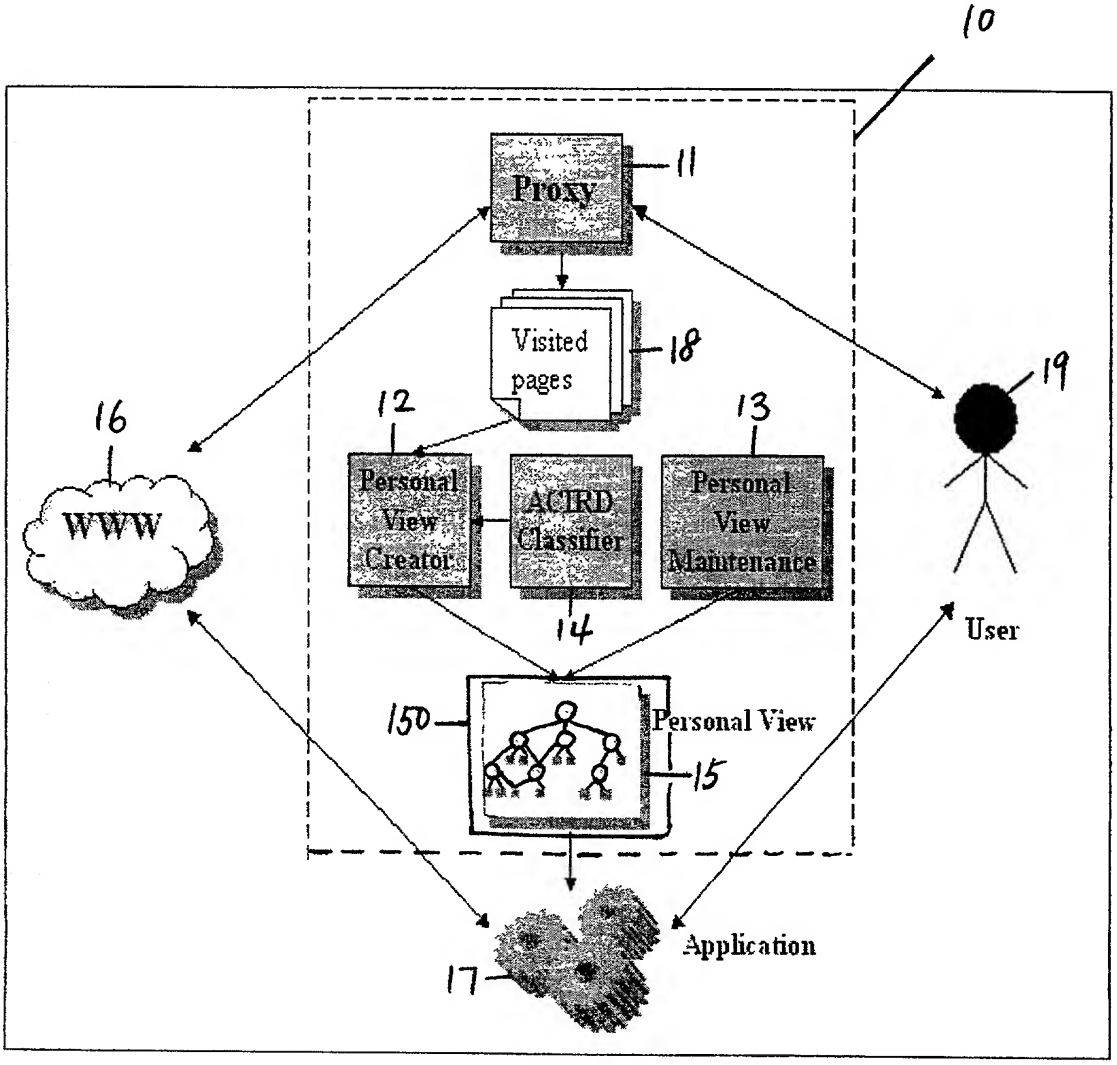
10
Proxy
11
Visited pages
18
19
16
12
13
WWW
Personal View Creator
ACIRD Classifier
Personal View Maintenance
14
User
150
Personal View
15
17
Application

FIG. 1

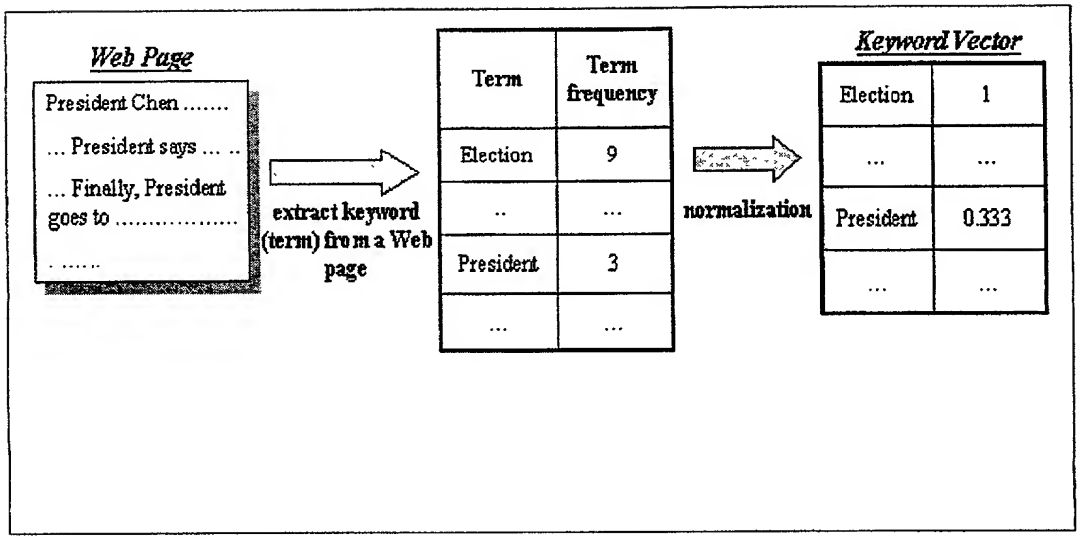
Web Page
President Chen .....
... President says ... ..
... Finally, President goes to .....
. .....
extract keyword (term) from a Web page
Term
Term frequency
Election
9
..
...
President
3
...
...
normalization
Keyword Vector
Election
1
...
...
President
0.333
...
...

FIG. 2

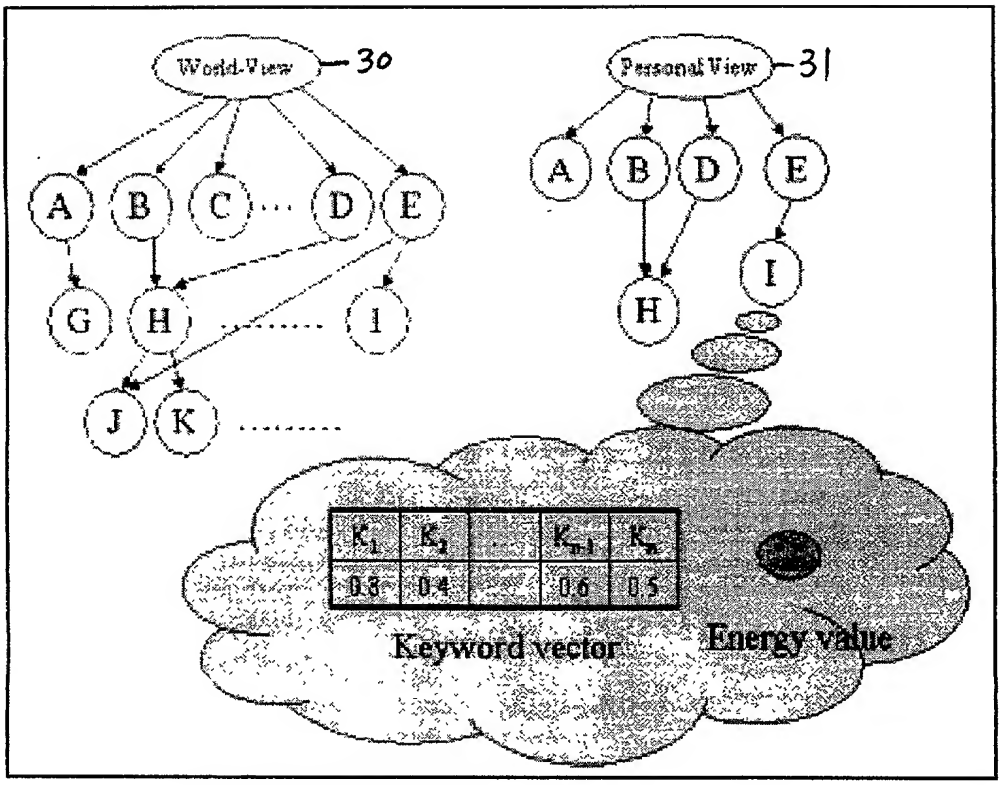
World-View
30
Personal View
31
A
B
C
D
E
G
H
I
J
K
A
B
D
E
H
I
K_1
K_2
K_{n-1}
K_n
0.3
0.4
0.6
0.5
Keyword vector
Energy value

FIG. 3

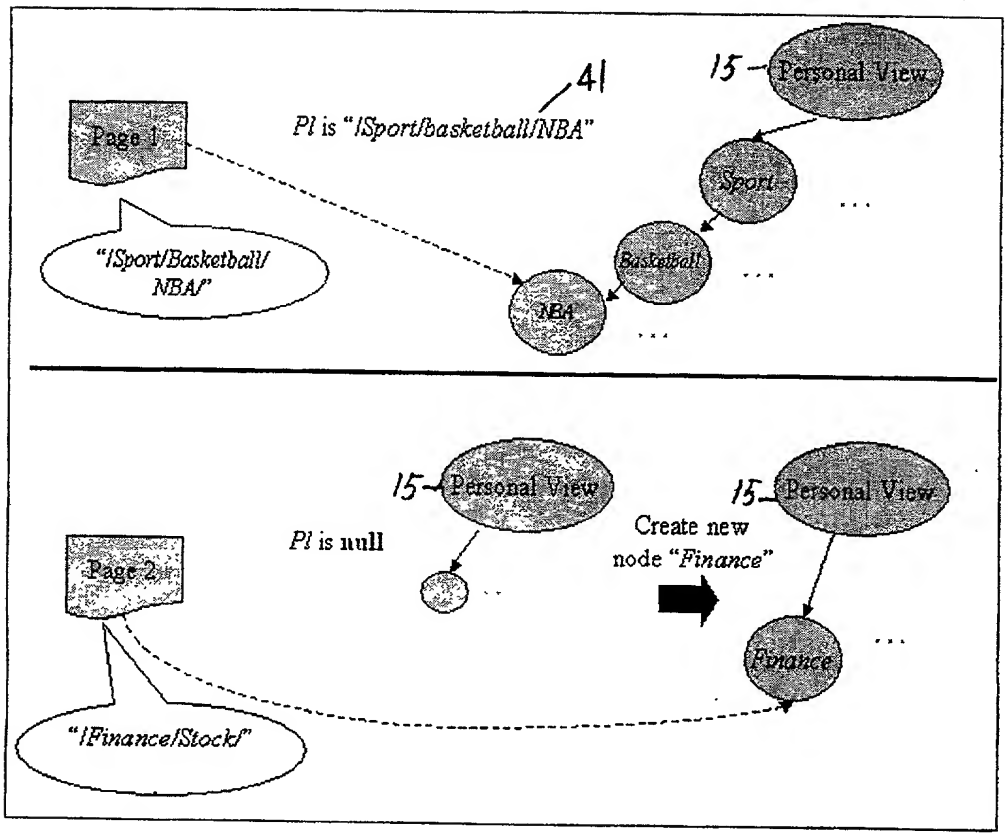
41
15
Personal View
Page 1
PI is "/Sport/basketball/NBA"
Sport
Basketball
NBA
"/Sport/Basketball/NBA/"
15
Personal View
PI is null
Page 2
Create new node "Finance"
15
Personal View
Finance
"/Finance/Stock/"

FIG. 4

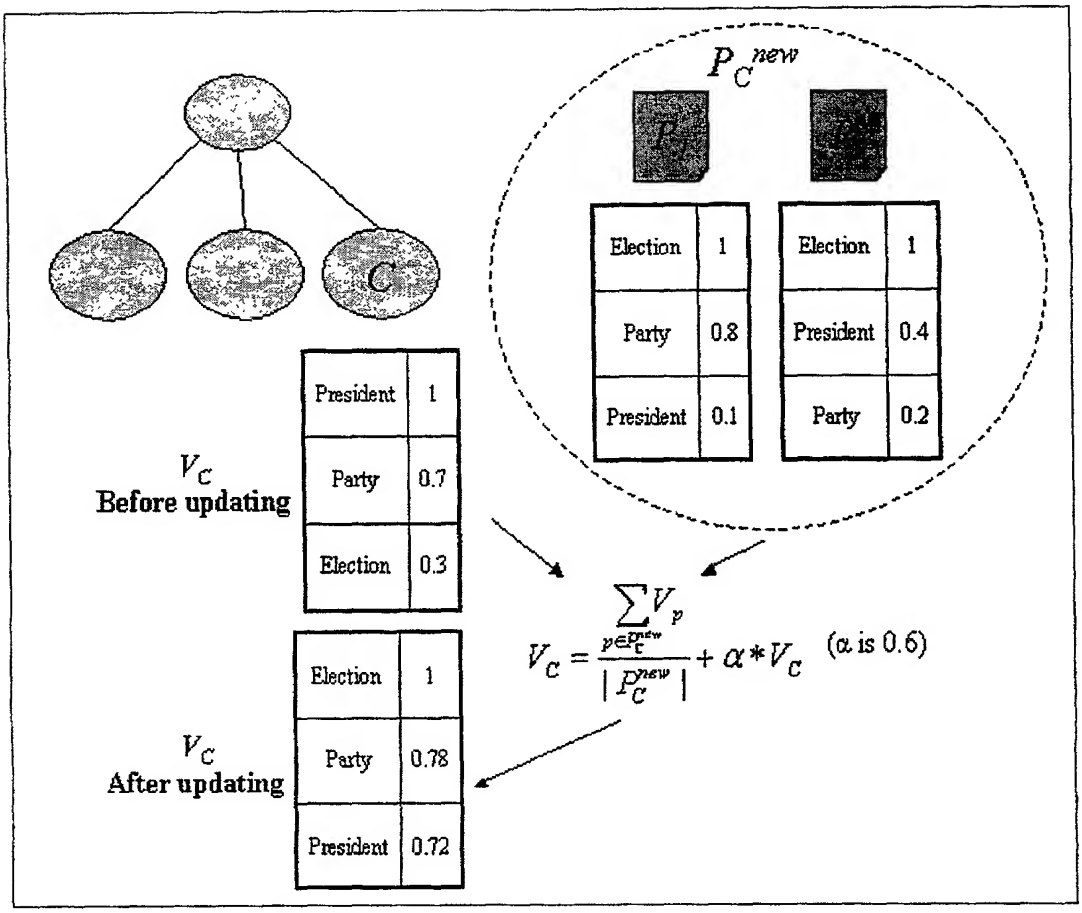
P_C^{new}
C
Election 1
Party 0.8
President 0.1
Election 1
President 0.4
Party 0.2
V_C Before updating
President 1
Party 0.7
Election 0.3
$V_C = \frac{\sum_{p \in P_C^{new}} V_p}{|P_C^{new}|} + \alpha * V_C$ (α is 0.6)
V_C After updating
Election 1
Party 0.78
President 0.72

FIG. 5

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For each category c in the *Personal View*
    While (E_c > *threshold*)
        $c_{child} = ARGMAX_{c_{child} \text{ in } c}\{SplitGain(c, c_{child})\}$
        Create the category c_{child} in the *Personal View*;
        Update the energy value of c;
        Calculate the energy value of c_{child};
        Calculate the keyword vector of c_{child};
        Update the keyword vector of c;
    End While;
End For;

FIG. 6A

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For each category c in the personal view
    $E_c = E_c - \beta$
    If $E_c <= th$ then
        Update the keyword vector of c's parent;
        Remove category c from the personal view;
    End If;
End For;

FIG. 6B

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